



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/974,881	10/12/2001	Takashi Nose	Q65614	7625

7590 04/24/2003

SUGHRUE, MION, ZINN, MACPEAK & SEAS  
2100 Pennsylvania Avenue, N.W.  
Washington, DC 20037

EXAMINER

NGUYEN, KIMNHUNG T

ART UNIT	PAPER NUMBER
----------	--------------

2674

DATE MAILED: 04/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/974,881

Applicant(s)

NOSE, TAKASHI

Examiner

Kimnhung Nguyen

Art Unit

2674

– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

Art Unit: 2674

### **DETAILED ACTION**

This Application has been examined. The claims 1-20 are pending. The examination results are as following.

#### ***Information Disclosure Statement***

1. The examiner has considered the references listed in the information disclosure statement (IDS) filed on 10-12-01 (Paper No.4) ((See attached form PTO-1449).

#### ***Drawings***

2. Figures 1-7D should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

#### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-3, 8, 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Rolston (US patent 6,452,582).

Art Unit: 2674

Rolston discloses in figures 1-3 that a liquid crystal display (34) comprising a display panel (16); a back light (22) irradiating through the display panel; and an inherent back light brighter at a first period than at a second period (see figure 4, column 2, lines 44-50); wherein the display panels displays a dynamic image at a second period, wherein the back light control circuit said light based on an image discriminating, and a controlling (42) said the display panel in response to the image (see figure 3).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 4-7, 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rolston (US patent 6,452,582) in view of Furuhashi et al. (US patent 5,818,409).

Rolston discloses in figures 1-3 that a liquid crystal display (34) comprising a display panel (16); a back light (22) irradiating through the display panel; and an inherent back light brighter at a first period than at a second period (see figure 4, column 2, lines 44-50); wherein the display panels displays a dynamic image at a second period (see figures 8), wherein the back light control circuit said light based on an image discriminating. However, Rolsto does not disclose that wherein the display panel comprises a plurality of cells, and a scanning lines. Furuhashi et al. diclose in figure 12 and 18 that a LCD comprises a plurality of cells and the

Art Unit: 2674

display having a scanning lines (see column 14, lines 66-67 and column 15, lines 1-4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Furuhashi et al. with plurality of cells and scanning lines in the device of Rolston because this would be selected simultaneous scanning and driving of a plurality of row in a liquid crystal display unit.

7. Claims 11-12, and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rolston (US patent 6,452,582) in view of Furuhashi et al. (US patent 5,818,409) as applied to claims 1, 5 above, and further in view of Hirano (US patent 5,894,304).

Rolston discloses in figures 1-3 that a liquid crystal display (34) comprising a display panel (16); a back light (22) irradiating through the display panel; and an inherent back light brighter at a first period than at a second period (see figure 4, column 2, lines 44-50); wherein the display panels displays a dynamic image at a second period (see figures 8), wherein the back light control circuit said light based on an image discriminating. Furuhashi et al. disclose a plurality of cells and scanning lines in the device, and a first frame and a second frame (see figure 27). However, Rolsto and Furuhashi et al. do not disclose a detector and comparator detecting said ratio of the display panel. Hirano discloses in figure 6 that a detector pen (3) and comparator (14) detecting in the liquid crystal panel (1) having a back light (2). It would have been It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Hirano with detector pen and comparator of the LCD in the device of Rolston and Furuhashi et al. as discussed above because this would detect the period signal generation circuit to the gate lines and compare an output from the threshold setting circuit (see column 5, lines 43-53).

Art Unit: 2674

*Correspondence*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached on (703) 305-4709.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D. C. 20231

**Or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only).**

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen  
April 9, 2003



**RICHARD HJERPE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600**